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The work commences with chapters upon the structure and varieties of caverns, the mineral, animal and vegetable contents of caves and cave dwellings, sepulchres and temples. In these chapters a large number of valuable facts respecting the caverns of various parts of the world, whether in limestone or other rocks, are brought together.

The descriptions are accompanied by the most authentic maps and by numerous illustrations, many of them sketched under the author's direction, by J. Barton Smith, of New Haven, Conn. The writer deserves great credit, not only for information so pleasantly imparted, but for his endeavor to give, wherever practicable, precise dimensions. Under rigorous measurement, Howe's cavern, N. Y., shrinks from seven, twelve, or even eighteen miles to three, yet the wonders of its Crystal lake and Winding way undergo no real shrinkage, and underground beauties generally do not need the inflations of fancy more than those of the upper region.

A few errors in dealing with old world places are the worst blemish of the book; the author makes cavern-temples of Karnac and Luxor, while he omits all mention of Ispambul, and speaks of the Grotto Azzuro of Capri as under "*the brilliant skies of Greece!*"

He also fails to notice Cope's reports of cave expeditions in Southwestern Virginia in 1869, and of the Port Kennedy, the Durham and the Northumberland county, Pennsylvania, caves, explored by Wheatley, Cope and Leidy.

RECENT BOOKS AND PAMPHLETS.—Celebrated American Caverns, especially Mammoth, Wyandot and Luray, together with historical, scientific and descriptive notices of caves and grottoes in other lands. By Horace C. Hovey. Cincinnati, Robert Clarke & Co., 1882. From the publishers.

Injurious Insects of the farm and garden. By Mary Treat. New York, Orange Judd Company, 1882. From the author.

Discovery of Tripoli near St. John. Dr. L. C. Allison's lecture describing the organisms which produce it, and Mr. G. F. Matthew's remarks on the uses to which it is applied, before the Natural History Society of N. Brunswick, 3d May, 1881.

Somewhat about a few medicinal plants of New Brunswick. By Dr. G. M. Duncan, of Bathurst. Before the Natural History Society of N. B., April, 1881.

A. Rozsagubaes Fejlődéséről. Paszlavsky József, Reáliskolai Tanártól. (On the Bedeguar of the Rose. By Joseph Puszlavsky, professor in the Imperial schools.) Buda-Pest, 1882. From the author.

Geological Map of the United States. Compiled by C. H. Hitchcock. New York, Julius Bien, 1881. From the author.

Life and Writings of Frank Forester (Henry William Herbert). Edited by David W. Judd. Vols. I and II. New York, Orange Judd & Co., 1882. From the editor.

American Game Bird Shooting. By John Mortimer Murphy. New York, Orange Judd & Co., 1882.

The Coues' Check-list of North American Birds. Second edition, revised to date, and entirely rewritten under direction of the author, with a dictionary of the etymology, orthography and orthoepy of the scientific names. Boston, Estes & Laureat, 1882. From the author.

U. S. Fish Commission. Report of the Commission for 1879. A.—Inquiry into the decrease of food fishes. B.—The propagation of food fishes in the waters of the United States. Washington, 1882. From the department.

The Horse: How to buy and sell. By Peter Howden. New York, Orange Judd & Co., 1882. From the publishers.

Bulletin of the U. S. Geol. and Geog. Survey. Preliminary list of works and papers relating to the Mammalian orders Cete and Sirenia. By Joel Asaph Allen. New Moths. By A. R. Grote, A.M. From the department.

Contribution from the Laboratory of the University of Pennsylvania. No. xx. Contribution to Mineralogy. By F. A. Genth. From the author.

The Origin and Relations of the Carbon Minerals. By Professor J. S. Newberry. From the *Annals N. Y. Acad. Sci.*, 1882. From the author.

Hypothetical High Tides, as Agents of Geological Change. By J. S. Newberry. *Ext. Trans. N. Y. Acad. Sci.*, 1882. From the author.

The Scientific Roll and Magazine of Systematized Notes. Conducted by Alexander Ramsay, F.G.S. Climate Vol. 1. Part II.—Aqueous vapor. London, Eng., J. H. Fennell, 1882.

Report of the Trustees of the Australian Museum. New South Wales, 1882.

The Opium Habit, its successful treatment by the *Avena Sativa*. By E. H. M. Sell, M.D. Rep. from the Medical Gazette, April 22, 1882. New York, Birmingham & Co. From the author.

The Channel Tunnel. By Professor Boyd Dawkins, M.A., F.R.S. *Ext. Trans. Manchester Geological Society*, Vol. xvi, 1882. J. Roberts, Salford, Eng.

Quarterly Report of the Kansas State Board of Agriculture, June 30, 1882. Wm. Sims, secretary, Topeka, Kansas. From the author.

Bryozoans of the Upper Helderberg and Hamilton groups. By James Hall. Albany, Weed, Parsons & Co., 1871. From the author.

Fossil Corals of the Niagara and Upper Helderberg groups. By James Hall. Albany, Weed, Parsons & Co., 1882. From the author.

Nogle Bemærkninger om Vaagmærer (*Trachypterus arcticus*) og Sildetusten (*Gymnetrus banksii*). Af Dr. Chr. Lütken. From the author.

Kovte Bidrag til Nordisk Ichthyographi N. *Trachypterus arcticus* og *Gymnetrus banksii*. Af Dr. Chr. Lütken. From the author.

•Ditto V. Om nogle nordiske Havkvabbe-ellor *Motella* (Onos) Arter.

Nature Series. The Scientific Evidences of Organic Evolution. By G. J. Romanes, M.A., F. R.S. London, Macmillan & Co. From the author.

Une Baleine Fossile de Croatie appartenant au genre *Mésocète*. Par P. J. Van Beneden. Bruxelles, F. Hayez, 1882. From the author.

Indiana Department of Geology and Natural History. Eleventh Annual Report. John Collett, State Geologist. From the author.

Zeitschrift für die Gesamten Naturwissenschaften. Redigirt von Dr. C. G. Giebel. Berlin, 1881. From the editor.

Eleventh Report of the State Entomologist on the Noxious and Beneficial Insects of the State of Illinois. By Cyrus Thomas, Ph.D. Springfield, H. W. Rokkev, 1882. From the author.

Notes on the Eastern Cities and Museums of the United States. By Agnes Crane. The Leisure Hour, London, July, August, September, 1882. From the author.

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GENERAL NOTES.

BOTANY.¹

A BOTANICAL EXCURSION TO MT. MANSFIELD AND SMUGGLER'S NOTCH.—Northern Vermont is well known as one of the most interesting botanical localities in New England, from the abundance

¹Edited by PROF. C. E. BESSEY, Ames, Iowa.